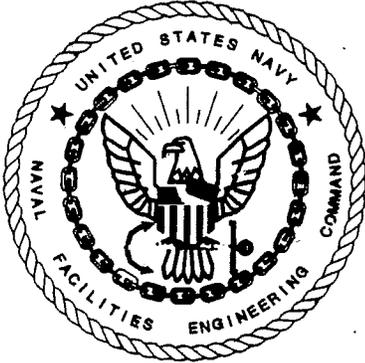


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FINAL REPORT PHASE 2 WASTESTREAM CHARACTERIZATION MILLINGTON SUPPACT
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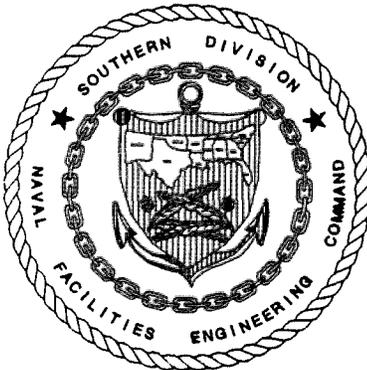
**FINAL REPORT
PHASE II WASTESTREAM CHARACTERIZATION
NAVAL SUPPORT ACTIVITY MEMPHIS
MILLINGTON, TENNESSEE**

**SOUTHNAVFACENGCOM
CONTRACT NUMBER:
N62467-89-D-0318
CTO-092**



Prepared for:

**Comprehensive Long-Term
Environmental Action Navy (CLEAN)
Naval Support Activity Memphis
Millington, Tennessee**



Prepared by:

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April 5, 1996

RELEASE OF THIS DOCUMENT REQUIRES THE PRIOR NOTIFICATION OF THE COMMANDING OFFICER OF THE NAVAL SUPPORT ACTIVITY MEMPHIS, MILLINGTON, TENNESSEE.

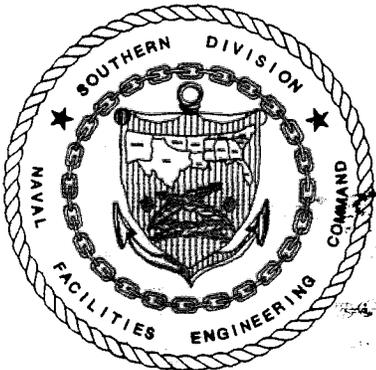
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19. Abstract

A hazardous waste analysis study was conducted for Naval Support Activity (NAVSUPACT) Memphis. The purpose of the study was to identify solid wastestreams and evaluate them to whether they are hazardous based on analytical and user knowledge. The following summary and recommendations are based on the findings.

- Between September, 1995 and April, 1996 site visits were conducted, samples collected and analyzed, and report prepared.
- Each wastestream was reviewed using existing data, process knowledge, and laboratory test results.

No conclusions were drawn, only facts presented.

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1.0 INTRODUCTION

This report provides results of analyses of selected solid wastestreams at Naval Support Activity (NAVSUPACT) Memphis in Millington, Tennessee, sampled as part of the Navy's ongoing hazardous waste characterization and pollution prevention efforts. The Navy tasked EnSafe/Allen and Hoshall (E/A&H) to conduct this second phase of an earlier wastestream characterization to assess which solid wastes are hazardous and to classify them according to Tennessee Department of Environment and Conservation Rule 1200-1 and U.S. Environmental Protection Agency (USEPA) Title 40 Code of Federal Regulations Part 261.

E/A&H collected representative waste samples as specified by the Navy and analyzed them at an offsite laboratory for chemical and/or physical characteristics. A waste characterization summary table listing each sampled or previously identified wastestream is presented in Section 2. Results are summarized in Appendix A of this report. The forms used to track data and wastestream characterization, analytical data, and Material Safety Data Sheets are provided in Appendix B.

The Navy's Statement of Work identified specific wastestreams to be sampled, but the number was reduced because some tenant commands have departed or downsized due to base realignment and closure. During the sampling process, additional wastestreams were identified and sampled. In all, 104 wastestreams were submitted for analysis.

2.0 CHARACTERIZATION EFFORTS

Information packets from records were verified during initial and follow-up site-specific surveys conducted in January, February, and March 1995. Outdated data were either deleted or updated based on interviews and/or the process components and materials identified as present during the site surveys. Some tenants appointed one individual to escort the survey team while others appointed different escorts at individual processes. Each generator was notified before the survey team visited.

A final report on the wastestreams identified at surveyed areas included generator information, process materials, process descriptions, and waste characterizations or recommendations for sampling for waste characterization. Based on the recommendations in the report, the Navy tasked E/A&H in October 1995 to collect wastestream samples for analysis. E/A&H sampled the recommended wastestreams, except for those associated with Aircraft Intermediate Maintenance Department Paint Shop (51B); Air Operations Avionics (600); Air Operations T-Line; Construction Battalion Unit 404 Alpha and Bravo Companies; Naval Air Maintenance Training Group paint, machine, and engine shops; and Fleet Logistics Support Squadron VR-60. As directed by the Navy, E/A&H also did not sample fluorescent bulbs, batteries, and oil-water separators. E/A&H was not able to sample all the remaining wastestreams (i.e., DYNCORP Locksmith, oil-water separator drum storage, Naval Reserve Readiness Command Region 9, and brig) because the quantity of wastes present at these locations were insufficient for sampling. E/A&H identified additional wastestreams, which were sampled.

The goal of this report is to provide NAVSUPACT Memphis with information to assist it in characterizing its hazardous wastestreams. The information collected by E/A&H represents only the wastestream on the date the information was collected. Table 2-1 summarizes waste profile information collected. Table 2-1 includes, but is not limited to, wastestream description, waste determination, and Department of Transportation information.

Each waste is given a waste profile alpha-numeric number that corresponds to the waste profile data sheets in Appendix B. The information in Appendix B provides the basis for wastestream determination. This information was obtained from activity personnel and laboratory analytical results.

Laboratory analytical results are summarized in Appendix A Tables A-1, A-2, and A-3. Table A-4 lists the wastestreams verified during the sampling event and USEPA hazardous waste identification codes. Section 3 describes sampling and analytical methods used.

Table 2-1
Waste Stream Determination Summary Table

Waste Profile Number	Department	Work Center	Building Number	Point of Contact	Waste Stream Description	Hazardous Waste Determination	DOT Shipping Name	TDEC Code	EPA Waste Code	Hazard Class or Division	UN or NA Number	Packing Group	Land Disposal Restrictions
AIMD-01	AIMD	AIMD Support Equipment (900)	N-112	AS-3 Brake	Used rags with solvent	No	—	—	—	—	—	—	—
AIMD-02	AIMD	AIMD Support Equipment (900)	N-112	AS-3 Brake	Rags with oil and grease	No	—	—	—	—	—	—	—
AIMD-03	AIMD	AIMD Support Equipment (900)	N-112	AS-3 Brake	Empty metal and plastic containers	No	—	—	—	—	—	—	—
AIMD-04	AIMD	AIMD Support Equipment (900)	N-112	AS-3 Brake	Used oil	No	—	—	—	—	—	—	Applicable
AIMD-05	AIMD	AIMD Support Equipment (900)	N-112	AS-3 Brake	Waste fuel (JP-5)	No	—	—	—	—	—	—	Applicable
AIMD-06	AIMD	AIMD Support Equipment (900)	N-112	AS-3 Brake	Waste absorbent	No	—	—	—	—	—	—	—
AIMD-07	AIMD	AIMD Support Equipment (900)	N-112	AS-3 Brake	Waste antifreeze	To be determined	—	—	—	—	—	—	Applicable
AIMD-08	AIMD	AIMD Support Equipment (900)	N-112	AS-3 Brake	Used hydraulic fluid	No, Off Spec.	—	—	—	—	—	—	Applicable
AIMD-09	AIMD	AIMD Support Equipment (900)	N-112	AS-3 Brake	Waste Safety-Kleen solvent	Yes	Hazardous Waste Liquid, n.o.s. (Tetrachloroethylene)	—	D039	9	NA3082	III	Applicable
AIMD-10	AIMD	AIMD Support Equipment (900)	N-112	AS-3 Brake	Used oil filters	No, Hot Drained	—	—	—	—	—	—	—

Table 2-1
Waste Stream Determination Summary Table

Waste Profile Number	Department	Work Center	Building Number	Point of Contact	Waste Stream Description	Hazardous Waste Determination	DOT Shipping Name	TDEC Code	EPA Waste Code	Hazard Class or Division	UN or NA Number	Packing Group	Land Disposal Restrictions
AIMD-11	AIMD	AIMD Support Equipment (900)	N-112	AS-3 Brake	Waste turbo shaft oil	No							Applicable
AIMD-12	AIMD	AIMD Support Equipment (900)	N-112	AS-3 Brake	Used fuel filters	No							
Armory-01	Security	Security Armory	S-159	GMG2 Hull	Rags with VVL-800 oil	No							
Armory-02	Security	Security Armory	S-159	GMG2 Hull	Cotton (swabs and patches) with VVL-800 oil	No							
Armory-03	Security	Security Armory	S-159	GMG2 Hull	Empty VVL-800 containers	No							
Dental-01	CSR	Dental	S-771	P.O. Francis	Empty aerosol cans	No							
Dental-02	CSR	Dental	S-771	P.O. Francis	Used dental amalgam	No	Mercury			8	UN2809	III	Applicable
Dental-03	CSR	Dental	S-771	P.O. Francis	Used titanium/tantalum buttons	No							
Dental-04	CSR	Dental	S-771	P.O. Francis	Empty containers	No							
Dental-05	CSR	Dental	S-771	P.O. Francis	Fixer and developer	No							
Dental-06	CSR	Dental	S-771	P.O. Francis	Used lead tabs	No							
Dental-07	CSR	Dental	S-771	P.O. Francis	Plaster for partials	No							

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Naval Support Activity Memphis
Millington, Tennessee
April 5, 1996

Table 2-1
Waste Stream Determination Summary Table

Waste Profile Number	Department	Work Center	Building Number	Point of Contact	Waste Stream Description	Hazardous Waste Determination	DOT Shipping Name	TDR Code	EPA Waste Code	Hazard Class or Division	UN or NA Number	Packing Group	Land Disposal Restrictions
Hospital-01	Naval Hospital	Naval Hospital Lab	H-100	Dent Williams	Waste xylene	Yes	RQ Waste, xylene	26	F003	3	UN1307	II	Applicable
Hospital-02	Naval Hospital	Naval Hospital Lab	H-100	Dent Williams	10% buffered formalin	No	Formaldehyde, Solutions	96	---	9	UN2209	III	Applicable
Hospital-03	Naval Hospital	Naval Hospital Lab	H-100	Dent Williams	Empty calibration gas canisters	No	---	---	---	---	---	---	---
Hospital-04	Naval Hospital	Naval Hospital Lab	H-100	Dent Williams	Empty surgipath frosebite aerosol cans	No	---	---	---	---	---	---	---
Hospital-05	Naval Hospital	Naval Hospital Lab	H-100	Dent Williams	Empty plastic containers	No	---	---	---	---	---	---	---
Hospital-06	Naval Hospital	Naval Hospital Lab	H-100	Dent Williams	Hematoxilin	No	---	---	---	---	---	---	---
Hospital-07	Naval Hospital	Naval Hospital Lab	H-100	Dent Williams	Silver/mercury mixture	Yes, recycled	Hazardous waste, solid, n.o.s. (silver)	---	D011	9	NA3077	III	Applicable
Hospital-08	Naval Hospital	Naval Hospital Lab	H-100	Dent Williams	Black sludge amalgam	No	---	---	---	---	---	---	---
Hospital-09	Naval Hospital	Naval Hospital Lab	H-100	Dent Williams	Plaster for partials	No	---	---	---	---	---	---	---
Hospital-10	Naval Hospital	Naval Hospital Lab	H-100	Dent Williams	Outdated/deteriorated drugs	No	---	---	---	---	---	---	---
Prison-01	Federal Prison	Federal Prison Equipment Maintenance	1410	Jim Church	Used mineral spirits/thinner	Yes	Waste, paint related materials	---	D001	3	UN1263	III	Applicable

Table 2-1
Waste Stream Determination Summary Table

Waste Profile Number	Department	Work Center	Building Number	Point of Contact	Waste Stream Description	Hazardous Waste Determination	DOT Shipping Name	TDEC Code	EPA Waste Code	Hazard Class or Division	UN or NA Number	Packing Group	Land Disposal Restrictions
Prison-02	Federal Prison	Federal Prison Equipment Maintenance	1410	Jim Church	Rags with thinner or oil	No	---	---	---	---	---	---	---
Prison-03	Federal Prison	Federal Prison Equipment Maintenance	1410	Jim Church	Used oil	No, Off Spec.	---	---	---	---	---	---	Applicable
Prison-04	Federal Prison	Federal Prison Equipment Maintenance	1410	Jim Church	Empty metal/plastic containers	No	---	---	---	---	---	---	---
Prison-05	Federal Prison	Federal Prison Equipment Maintenance	1410	Jim Church	Used antifreeze	Yes	Hazardous waste, liquid, n.o.s. (selenum)	---	D010	9	NA3082	III	Applicable
Prison-06	Federal Prison	Federal Prison Equipment Maintenance	1410	Jim Church	Rags with oil	No	---	---	---	---	---	---	---
Prison-07	Federal Prison	Federal Prison Equipment Maintenance	1410	Jim Church	Used oil filters	No	---	---	---	---	---	---	---
MWR-01	MWR	MWR Arts/crafts Hobby Shop	N-797	Mr. Kidd	Empty aerosol cans	No	---	---	---	---	---	---	---

Table 2-1
Waste Stream Determination Summary Table

Waste Profile Number	Department	Work Center	Building Number	Point of Contact	Waste Stream Description	Hazardous Waste Determination	DOT Shipping Name	TDEC Code	EPA Waste Code	Hazard Class or Division	UN or NA Number	Packing Group	Land Disposal Restrictions
MWR-02	MWR	MWR Graphics	S-797	Mr. Kidd	Used ink with Knox-out	Yes	Hazardous waste, liquid, n.o.s. (dichloroethane, tetrachloro-ethylene)	110	F002	6.1	UN3287	III	Applicable
MWR-03	MWR	MWR Graphics	S-797	Mr. Kidd	Empty containers (paint, glue, etc.)	No	—	—	—	—	—	—	—
MWR-04	MWR	MWR Graphics	S-797	Mr. Kidd	*Cotton pads with ink or solvent	Yes	Hazardous waste, solid, n.o.s. (1,1,1-trichloroethane)	111	D039, F002	9	NA3077	III	Applicable
MWR-05	MWR	MWR Graphics	S-797	Mr. Kidd	*Used cleaner (TCA)	Yes	Waste, (1,1,1-trichloroethane)	—	F002	6.1	UN2831	III	Applicable
MWR-06	MWR	MWR Auto Hobby Shop	S-397	Mr. Wright	Air filters	No	—	—	—	—	—	—	—
MWR-07	MWR	MWR Auto Hobby Shop	S-397	Mr. Wright	Empty aerosol cans	No	—	—	—	—	—	—	—
MWR-08	MWR	MWR Auto Hobby Shop	S-397	Mr. Wright	Antifreeze	Yes	Hazardous waste liquid, n.o.s. (lead)	—	D009	9	NA3082	III	Applicable
MWR-09	MWR	MWR Auto Hobby Shop	S-397	Mr. Wright	Safety Kleen	Yes	Hazardous waste liquid, n.o.s. (Tetrachloroethylene)	—	D039	9	NA3082	III	Applicable

Table 2-1
Waste Stream Determination Summary Table

Waste Profile Number	Department	Work Center	Building Number	Point of Contact	Waste Stream Description	Hazardous Waste Determination	DOT Shipping Name	TDEC Code	EPA Waste Code	Hazard Class or Division	UN or NA Number	Packing Group	Land Disposal Restrictions
MWR-10	MWR	MWR Auto Hobby Shop	N-397	Mr. Wright	Used transmission fluid/hydraulic fluid	No, recycled	—	—	—	—	—	—	Applicable
MWR-11	MWR	MWR Auto Hobby Shop	N-397	Mr. Wright	Used oil filters	No	—	—	—	—	—	—	—
MWR-12	MWR	MWR Auto Hobby Shop	N-397	Mr. Wright	Used oil	No, recycled	—	—	—	—	—	—	Applicable
MWR-13	MWR	MWR Auto Hobby Shop	N-397	Mr. Wright	Paper towels with oil, paint, thinner, etc.	To be determined	—	—	—	—	—	—	To be determined
MWR-14	MWR	MWR Auto Hobby Shop	N-397	Mr. Wright	Used speedy dry absorbent	To be determined	—	—	—	—	—	—	To be determined
MWR-15	MWR	MWR Auto Hobby Shop	N-397	Mr. Wright	Car wash sludge	Determined by activity	—	—	—	—	—	—	To be determined
MWR-16	MWR	MWR Auto Hobby Shop	N-397	Mr. Wright	Used soda lye/ water mixture	To be determined	—	—	—	—	—	—	To be determined
MWR-17	MWR	MWR Auto Hobby Shop	N-397	Mr. Wright	Waste soap and water	No	—	—	—	—	—	—	—
MWR-18	MWR	MWR Auto Hobby Shop	N-397	Mr. Wright	Waste freon	No, recycled	Dichlorodifluoromethane	—	—	—	—	—	Applicable
MWR-19	MWR	MWR Auto Hobby Shop	N-397	Mr. Wright	Empty gas canisters	No	—	—	—	—	—	—	—

**Table 2-1
Waste Stream Determination Summary Table**

Waste Profile Number	Department	Work Center	Building Number	Point of Contact	Waste Stream Description	Hazardous Waste Determination	DOT Shipping Name	TDEC Code	EPA Waste Code	Hazard Class or Division	UN or NA Number	Packing Group	Land Disposal Restrictions
MWR-20	MWR	MWR Auto Hobby Shop	N-397	Mr. Wright	Waste paint/ thinner	Yes	RQ Waste, paint related materials	112	D001, D035	3	UN1263	II	Applicable
MWR-21	MWR	MWR Auto Hobby Shop	N-397	Mr. Wright	Soda lye sludge	To be determined	—	—	—	—	—	—	To be determined
MWR-22	MWR	MWR Auto Hobby Shop	N-397	Mr. Wright	Waste carburetor cleaner	Yes	Hazardous waste, liquid, n.o.s. (tetrachloroethene)	—	F001, D001, D027, D039	9	NA3082	III	Applicable
MWR-23	MWR	MWR Auto Hobby Shop	N-397	Mr. Wright	Waste paint from can crusher	Yes	Waste paint	—	D001, D035	3	UN1263	II	Applicable
MWR-24	MWR	MWR Support Group	N-26	Don Syde	Empty freon bottles	No	—	—	—	—	—	—	—
MWR-25	MWR	MWR Support Group	N-26	Don Syde	Empty aerosol cans	No	—	—	—	—	—	—	—
MWR-26	MWR	MWR Support Group	N-26	Don Syde	Empty plastic/ metal containers	No	—	—	—	—	—	—	—
MWR-27	MWR	MWR Support Group	N-26	Don Syde	Used joint compound	No	—	—	—	—	—	—	—
MWR-28	MWR	MWR Support Group	N-26	Don Syde	Waste paint	Yes	RQ Waste paint	113	D001, D005	3	UN1263	III	Applicable

Table 2-1
Waste Stream Determination Summary Table

Waste Profile Number	Department	Work Center	Building Number	Point of Contact	Waste Stream Description	Hazardous Waste Determination	DOT Shipping Name	TDEC Code	EPA Waste Code	Hazard Class or Division	UN or NA Number	Packing Group	Land Disposal Restrictions
MWR-29	MWR	MWR Support Group	N-26	Don Syde	Rags with oil and leak check	Yes	Hazardous waste, solid, n.o.s. dichlorodifluoromethane	—	F002	9	NA3077	III	Applicable
MWR-30	MWR	MWR Support Group	N-26	Don Syde	Rags with cleaner and thinner	No	—	—	—	—	—	—	—
MWR-31	MWR	MWR Support Group	N-26	Don Syde	Waste oil with freon	Yes	Hazardous waste, liquid, n.o.s (petroleum, dichlorodifluoromethane)	—	F002	9	NA3082	III	Applicable
MWR-32	MWR	MWR Golf Course	N-26A	Michael Laird	Used lead acid batteries	No, recycled	Batteries, wet filled with acid	—	—	8	UN2794	III	—
MWR-33	MWR	MWR Golf Course	N-26A	Michael Laird	Empty containers	No	—	—	—	—	—	—	—
MWR-34	MWR	MWR Golf Course	N-26A	Michael Laird	Paper towels with oil and grease	No	—	—	—	—	—	—	—
MWR-35	MWR	MWR Golf Course	N-26A	Michael Laird	Waste oil	To Be Determined	—	—	—	—	—	—	Applicable
MWR-36	MWR	MWR Vehicle Maintenance	N-1211	Mr. Demery	Used oil and hydraulic fluid	No, Off Spec.	—	—	—	—	—	—	Applicable
MWR-37	MWR	MWR Vehicle Maintenance	N-1211	Mr. Demery	Used lead acid batteries	No, recycled	Batteries, wet filled with acid	—	—	8	UN2794	III	—

Table 2-1
Waste Stream Determination Summary Table

Waste Profile Number	Department	Work Center	Building Number	Point of Contact	Waste Stream Description	Hazardous Waste Determination	DOT Shipping Name	TREC Code	EPA Waste Code	Hazard Class or Division	UN or NA Number	Packing Group	Land Disposal Restrictions
MWR-38	MWR	MWR Vehicle Maintenance	N-1211	Mr. Demery	Used antifreeze	No							Applicable
MWR-39	MWR	MWR Vehicle Maintenance	N-1211	Mr. Demery	Waste Safety-Kleen solvent	Yes	Waste Naptha Solvent	35	D001	3	UN1256	III	Applicable
MWR-40	MWR	MWR Vehicle Maintenance	N-1211	Mr. Demery	Empty aerosol cans	No							
MWR-41	MWR	MWR Vehicle Maintenance	N-1211	Mr. Demery	Empty gas cylinders	No							
MWR-42	MWR	MWR Vehicle Maintenance	N-1211	Mr. Demery	Rags with grease and/or oil	No							
MWR-43	MWR	MWR Vehicle Maintenance	N-1211	Mr. Demery	Used tires	No							
MWR-44	MWR	MWR Vehicle Maintenance	N-1211	Mr. Demery	Used speedy dry absorbent	No							
MWR-45	MWR	MWR Vehicle Maintenance	N-1211	Mr. Demery	Metal shavings and cuttings with oil	No							
MWR-46	MWR	MWR Vehicle Maintenance	N-1211	Mr. Demery	Empty oil and grease containers	No							
MWR-47	MWR	MWR Vehicle Maintenance	N-1211	Mr. Demery	Scrap metal	No							

**Table 2-1
Waste Stream Determination Summary Table**

Waste Profile Number	Department	Work Center	Building Number	Point of Contact	Waste Stream Description	Hazardous Waste Determination	DOT Shipping Name	TDEC Code	EPA Waste Code	Hazard Class or Division	UN or NA Number	Packing Group	Land Disposal Restrictions
MWR-48	MWR	MWR Vehicle Maintenance	N-1211	Mr. Demery	Used oil filters	No	—	—	—	—	—	—	—
MWR-49	MWR	MWR Vehicle Maintenance	N-1211	Mr. Demery	Wastewater/ sludge	Determined by activity	—	—	—	—	—	—	To be determined
Dyncorp-01	Dyncorp	Dyncorp Boiler Shop/ Maintenance	H-100	George Burns	Empty chemical containers	No	—	—	—	—	—	—	—
Dyncorp-02	Dyncorp	Dyncorp Boiler Shop/ Maintenance	H-100	George Burns	Used freon	No, recycled	Dichlorodifluoro-methane	101	—	—	—	—	Applicable
Dyncorp-03	Dyncorp	Dyncorp Boiler Shop/ Maintenance	H-100	George Burns	Used oil	TBD, recycled	—	—	—	—	—	—	Applicable
Dyncorp-04	Dyncorp	Dyncorp Boiler Shop/ Maintenance	H-100	George Burns	Rags with oil and grease	No	—	—	—	—	—	—	—
Dyncorp-05	Dyncorp	Dyncorp Boiler Shop/ Maintenance	H-100	George Burns	Used air filters	No	—	—	—	—	—	—	—
Dyncorp-06	Dyncorp	Dyncorp Boiler Shop/ Maintenance	H-100	George Burns	Used ballasts	Determined by activity	—	—	—	—	—	—	To be determined
Dyncorp-07	Dyncorp	Dyncorp Boiler Shop/ Maintenance	H-100	George Burns	Used lead acid batteries	No, recycled	Batteries, wet filled with acid	—	—	8	UN2794	III	—
Dyncorp-08	Dyncorp	Dyncorp Boiler Shop/ Maintenance	H-100	George Burns	Waste fluorescent light tubes	Yes	RQ Waste Mercury Solid, n.o.s.	152	D009	6.1	UN2025	III	Applicable

Table 2-1
Waste Stream Determination Summary Table

Waste Profile Number	Department	Work Center	Building Number	Point of Contact	Waste Stream Description	Hazardous Waste Determination	DOT Shipping Name	TDEC Code	EPA Waste Code	Hazard Class or Division	UN or NA Number	Packing Group	Land Disposal Restrictions
Dyncorp-09	Dyncorp	Dyncorp Electric/ Carpentry	S-77	George Burns	Empty paint cans	No	---	---	---	---	---	---	---
Dyncorp-10	Dyncorp	Dyncorp Electric/ Carpentry	S-77	George Burns	Recoverable freon	No, recycled	Chlorodifluoro- methane, R22	---	---	---	---	---	Applicable
Dyncorp-11	Dyncorp	Dyncorp Electric/ Carpentry	S-77	George Burns	Used lead acid batteries	No, recycled	Batteries, wet filled with acid	---	---	8	UN2794	III	---
Dyncorp-12	Dyncorp	Dyncorp Electric/ Carpentry	S-77	George Burns	Waste fluorescent light tubes	Yes	RQ Waste Mercury solid, n.o.s.	152	D009	6.1	UN2025	III	Applicable
Dyncorp-13	Dyncorp	Dyncorp Electric/ Carpentry	S-77	George Burns	Used oil with freon	Yes	Hazardous waste, liquid (petroleum oil, chlorodifluoro- methane)	---	F002	9	NA3082	III	Applicable
Dyncorp-14	Dyncorp	Dyncorp Electric/ Carpentry	S-77	George Burns	Rags from staining operations	No	---	---	---	---	---	---	---
Dyncorp-15	Dyncorp	Dyncorp Electric/ Carpentry	S-77	George Burns	Rags with oil and freon	Yes	Hazardous waste, solid, n.o.s. (petroleum oil, chlorodifluoro methane)	---	F002	9	NA3077	III	Applicable
Dyncorp-16	Dyncorp	Dyncorp Electric/ Carpentry	S-77	George Burns	Transformer oil	No	---	---	---	---	---	---	Applicable

**Table 2-1
Waste Stream Determination Summary Table**

Waste Profile Number	Department	Work Center	Building Number	Point of Contact	Waste Stream Description	Hazardous Waste Determination	DOT Shipping Name	TDEC Code	EPA Waste Code	Hazard Class or Division	UN or NA Number	Packing Group	Land Disposal Restrictions
Dyncorp-17	Dyncorp	Dyncorp Electric/ Carpentry	S-77	George Burns	Unknown 5 gallon drum (liquid)	Yes	Hazardous Waste Liquid, n.o.s	—	D001	9	NA3082	III	Applicable
Dyncorp-18	Dyncorp	Dyncorp Electric/ Carpentry	S-77	George Burns	Thinner	Yes	RQ Waste paint related material	—	D001	3	UN1263	II	Applicable
Dyncorp-19	Dyncorp	Dyncorp Paint	S-183	George Burns	Empty paint cans	No	—	—	—	—	—	—	—
Dyncorp-20	Dyncorp	Dyncorp Pest Control	S-1669	George Burns	Empty plastic containers	No	—	—	—	—	—	—	—
Dyncorp-21	Dyncorp	Dyncorp Pest Control	S-1669	George Burns	Empty aerosol cans	No	—	—	—	—	—	—	—
Dyncorp-22	Dyncorp	Dyncorp Pest Control	S-1669	George Burns	Empty paper bags	No	—	—	—	—	—	—	—
Dyncorp-23	Dyncorp	Dyncorp Pest Control	S-1669	George Burns	Empty plastic drums	No	—	—	—	—	—	—	—
Dyncorp-24	Dyncorp	Dyncorp Transportation	S-9	George Burns	Empty aerosol cans	No	—	—	—	—	—	—	—
Dyncorp-25	Dyncorp	Dyncorp Transportation	S-9	George Burns	Rags with paint, oil, and grease	Yes	Hazardous waste, solid, n.o.s. (Lead)	—	D008	9	NA3077	III	Applicable
Dyncorp-26	Dyncorp	Dyncorp Transportation	S-9	George Burns	Used oil	No	—	—	—	—	—	—	Applicable

Table 2-1
Waste Stream Determination Summary Table

Waste Profile Number	Department	Work Center	Building Number	Point of Contact	Waste Stream Description	Hazardous Waste Determination	DOT Shipping Name	TDRC Code	EPA Waste Code	Hazard Class or Division	UN or NA Number	Packing Group	Land Disposal Restrictions
Dyncorp-27	Dyncorp	Dyncorp Transportation	S-9	George Burns	Used antifreeze	Yes	Hazardous waste, liquid, n.o.s. (ethylene)	--	D010	9	NA3082	III	Applicable
Dyncorp-28	Dyncorp	Dyncorp Transportation	S-9	George Burns	Used lead acid batteries	No, recycled	Batteries, wet filled with acid	--	--	8	UN2794	III	--
Dyncorp-29	Dyncorp	Dyncorp Transportation	S-9	George Burns	Used speedy dry absorbent	No	--	--	--	--	--	--	--
Dyncorp-30	Dyncorp	Dyncorp Transportation	S-9	George Burns	Used solvent filters	Yes	Hazardous waste, solid, n.o.s. (cadmium)	--	D006	9	NA3077	III	Applicable
Dyncorp-31	Dyncorp	Dyncorp Transportation	S-9	George Burns	Rags with solvent	Yes	Hazardous waste, solid, n.o.s. (lead)	--	D008	9	NA3077	III	Applicable
Dyncorp-32	Dyncorp	Dyncorp Transportation	S-9	George Burns	Used tires	No	--	--	--	--	--	--	--
Dyncorp-33	Dyncorp	Dyncorp Transportation	S-9	George Burns	Grease rags	No	--	--	--	--	--	--	--
Dyncorp-34	Dyncorp	Dyncorp Transportation	S-9	George Burns	Used oil filters	No	--	--	--	--	--	--	--
Dyncorp-35	Dyncorp	Dyncorp Water Treatment	S-772	George Burns	Empty plastic containers	No	--	--	--	--	--	--	--

Table 2-1
Waste Stream Determination Summary Table

Waste Profile Number	Departments	Work Center	Building Number	Point of Contact	Waste Stream Description	Hazardous Waste Determination	DOT Shipping Name	TDEC Code	EPA Waste Code	Hazard Class or Division	UN or NA Number	Packing Group	Land Disposal Restrictions
Dyncorp-36	Dyncorp	Dyncorp Water Treatment	S-772	George Burns	Waste rinseate from chemicals	Yes	Hazardous waste, liquid, n.o.s. (selenium)	—	D010	9	NA3082	III	Applicable
Dyncorp-37	Dyncorp	Dyncorp Steam Plant	S-75	George Burns	Used speedy dry absorbent	To be determined	—	—	—	—	—	—	To be determined
Dyncorp-38	Dyncorp	Dyncorp Steam Plant	S-75	George Burns	Empty bags	No	—	—	—	—	—	—	—
Dyncorp-39	Dyncorp	Dyncorp Steam Plant	S-75	George Burns	Empty metal drums	No	—	—	—	—	—	—	—
Dyncorp-40	Dyncorp	Dyncorp Steam Plant	S-75	George Burns	Ashes	No	—	—	—	—	—	—	—
Dyncorp-41	Dyncorp	Dyncorp Steam Plant	S-75	George Burns	Used absorbent pillows	No	—	—	—	—	—	—	—
Dyncorp-42	Dyncorp	DyncorpLocksmith/Air Filter Shop	S-235	George Burns	Unused asbestos roofing material	Determined by activity	To be determined	—	—	—	—	—	To be determined
Dyncorp-43	Dyncorp	DyncorpLocksmith/Air Filter Shop	S-235	George Burns	Empty freon containers	No	—	—	—	—	—	—	—
Dyncorp-44	Dyncorp	Dyncorp Reuse Store	S-203	George Burns	Expired/ unusable products	Determined by activity	To be determined	—	—	—	—	—	To be determined
Dyncorp-45	Dyncorp	Dyncorp OWS Drum Storage Area	Near Bldg. S-75	George Burns	Oil/water separator sludge	Determined by activity	—	102	—	—	—	—	To be determined

Table 2-1
Waste Stream Determination Summary Table

Waste Profile Number	Department	Work Center	Building Number	Point of Contact	Waste Stream Description	Hazardous Waste Determination	DOT Shipping Name	TDEC Code	EPA Waste Code	Hazard Class or Division	UN or NA Number	Packing Group	Land Disposal Restrictions
NATTC-01	NATTC	NATTC AMH	S-785	Chief Owens	Used PD-680 Type II with hydraulic fluid	No	Waste, petroleum distillate	16	—	3	UN1268	III	Applicable
NATTC-02	NATTC	NATTC AMH	S-785	Chief Owens	Rags with PD-680	No	—	—	—	—	—	—	—
NATTC-03	NATTC	NATTC AS	S-787	Boesche/ Povee	Rags with gasoline	To be determined	—	109	—	—	—	—	To be determined
NATTC-04	NATTC	NATTC AS	S-787	Boesche/ Povee	Rags with engine oil, grease, and hydraulic fluid	No	—	—	—	—	—	—	—
NATTC-05	NATTC	NATTC AS	S-787	Boesche/ Povee	Used freon	No, recycled	Dichlorodifluoromethane	—	—	—	—	—	Applicable
NATTC-06	NATTC	NATTC MEMD	S-394	AME-1 Sosnicki	Empty cans (paint, oil, etc.)	No	—	—	—	—	—	—	—
NATTC-07	NATTC	NATTC MEMD	S-394	AME-1 Sosnicki	Rags with oil, hydraulic fluid, lubricants, grease, sealants, corrosion preventative compounds, and PD-680	No	—	—	—	—	—	—	—
NATTC-08	NATTC	NATTC MEMD	S-394	AME-1 Sosnicki	Empty aerosol cans	No	—	—	—	—	—	—	—

**Table 2-1
Waste Stream Determination Summary Table**

Waste Profile Number	Department	Work Center	Building Number	Point of Contact	Waste Stream Description	Hazardous Waste Determination	DOT Shipping Name	TDEC Code	EPA Waste Code	Hazard Class or Division	UN or NA Number	Packing Group	Land Disposal Restrictions
NATTC-09	NATTC	NATTC MEMD	S-394	AME-1 Sosnicki	Used speedy dry absorbent	No	—	—	—	—	—	—	—
NATTC-10	NATTC	NATTC MEMD	S-394	AME-1 Sosnicki	Used lead acid batteries	No	Batteries, wet filled with acid	—	—	8	UN2794	III	—
NATTC-11	NATTC	NATTC MEMD	S-394	AME-1 Sosnicki	Metal shavings with oil	No	—	—	—	—	—	—	—
NATTC-12	NATTC	NATTC MEMD	S-394	AME-1 Sosnicki	Used tires	No	—	—	—	—	—	—	—
NATTC-13	NATTC	NATTC MEMD	S-394	AME-1 Sosnicki	Used hydraulic fluid	No, recycled	—	—	—	—	—	—	Applicable
NATTC-14	NATTC	NATTC MEMD	S-394	AME-1 Sosnicki	Used oil	No, recycled	—	—	—	—	—	—	Applicable
NATTC-15	NATTC	NATTC MEMD	S-394	AME-1 Sosnicki	Used Safety-Kleen solvent	Yes	Hazardous waste, liquid, n.o.s. (benzene)	—	D001, D018	9	NA3082	III	Applicable
NATTC-16	NATTC	NATTC MEMD	S-394	AME-1 Sosnicki	Used oil filters	No	—	—	—	—	—	—	—
NATTC-17	NATTC	NATTC Expendi- tary Air Field	Near Bldg. 1734	GYGST Budyas	Used oil	No, Off Spec.	—	—	—	—	—	—	Applicable

Table 2-1
Waste Stream Determination Summary Table

Waste Profile Number	Department	Work Center	Building Number	Point of Contact	Waste Stream Description	Hazardous Waste Determination	DOT Shipping Name	TDEC Code	EPA Waste Code	Hazard Class or Division	UN or NA Number	Packing Group	Land Disposal Restrictions
NATTC-18	NATTC	NATTC Expendi- tary Air Field	Near Bldg. 1734	GYGST Budynas	¹ Rags with oil and grease	Yes	⁴ Hazardous waste, solid, n.o.s. (cadmium)	—	D006	9	NA3077	III	Applicable
NATTC-19	NATTC	NATTC Expendi- tary Air Field	Near Bldg. 1734	GYGST Budynas	Dry Sweep	No	—	—	—	—	—	—	—
NATTC-20	NATTC	NATTC Expendi- tary Air Field	Near Bldg. 1734	GYGST Budynas	Used lead acid batteries	No, recycled	Batteries, wet filled with acid	—	—	8	UN2794	III	—
NATTC-21	NATTC	NATTC Expendi- tary Air Field	Near Bldg. 1734	GYGST Budynas	Used gaco	No	—	—	—	—	—	—	—
NATTC-22	NATTC	NATTC Expendi- tary Air Field	Near Bldg. 1734	GYGST Budynas	¹ Used simple green	To be determined	—	—	—	—	—	—	To be determined
NATTC-23	NATTC	NATTC Expendi- tary Air Field	Near Bldg. 1734	GYGST Budynas	Used Dextron oil	No, recycled	—	—	—	—	—	—	—
NATTC-24	NATTC	NATTC Facility Support Branch	S-54	P.O. Conger	¹ Rags with electrostatic solution and deglazing solvent	Yes	Hazardous waste, solid, n.o.s. (1,1,1- trichloroethane)	—	F002	9	NA3077	III	Applicable
NATTC-25	NATTC	NATTC Facility Support Branch	S-54	P.O. Conger	¹ Used electrostatic fluid	Yes	Hazardous waste, solid, n.o.s. (1,1,1- trichloroethane)	—	F002	9	NA3082	III	Applicable
NATTC-26	NATTC	NATTC Facility Support Branch	S-54	P.O. Conger	Used oil	No, Off Spec.	—	—	—	—	—	—	Applicable

Table 2-1
Waste Stream Determination Summary Table

Waste Profile Number	Department	Work Center	Building Number	Point of Contact	Waste Stream Description	Hazardous Waste Determination	DOT Shipping Name	TDEC Code	EPA Waste Code	Hazard Class or Division	UN or NA Number	Packing Group	Land Disposal Restrictions
NATTC-27	NATTC	NATTC Facility Support Branch	S-54	P.O. Conger	Used oil filters	No	—	—	—	—	—	—	—
NATTC-28	NATTC	NATTC Facility Support Branch	S-54	P.O. Conger	Rags with oil	No	—	—	—	—	—	—	—
NATTC-29	NATTC	NATTC Facility Support Branch	S-54	P.O. Conger	Unknown 5 gallons	No	—	—	—	—	—	—	Applicable
NATTC-30	NATTC	NATTC Joint Oil Analysis Program	S-241	ADC(AW) Spicer	Used methanol	Yes	Waste methanol	134	D001, U154	3	UN1230	II	Applicable
NATTC-31	NATTC	NATTC Joint Oil Analysis Program	S-241	ADC(AW) Spicer	Rags with hydraulic fluid	No	—	—	—	—	—	—	—
NATTC-32	NATTC	NATTC Joint Oil Analysis Program	S-241	ADC(AW) Spicer	Rags with oil	No	—	—	—	—	—	—	—
NATTC-33	NATTC	NATTC Joint Oil Analysis Program	S-241	ADC(AW) Spicer	Rags with methanol	No	—	—	—	—	—	—	—
NATTC-34	NATTC	NATTC Joint Oil Analysis Program	S-241	ADC(AW) Spicer	Used naphtha	Yes	Waste Naphtha petroleum	—	D001	3	UN1255	II	Applicable
NATTC-35	NATTC	NATTC Joint Oil Analysis Program	S-241	ADC(AW) Spicer	Waste toluene, isopropyl alcohol	Yes	Waste, flammable liquid, n.o.s. (toluene, isopropyl alcohol)	147	D001, F005	3	UN1993	II	Applicable

**Table 2-1
Waste Stream Determination Summary Table**

Waste Profile Number	Department	Work Center	Building Number	Point of Contact	Waste Stream Description	Hazardous Waste Determination	DOT Shipping Name	TDEC Code	EPA Waste Code	Hazard Class or Division	UN or NA Number	Packing Group	Land Disposal Restrictions
NATTC-36	NATTC	NATTC Joint Oil Analysis Program	S-241	ADC(AW) Spicer	Waste vessel (liquid)	Yes	Waste Flammable Liquid, n.o.s. (Methanol)	135	D001	3	UN1993	I	Applicable
NATTC-37	NATTC	NATTC AMS	S-784	P.O. Johnson	Water with alodine	Yes	Hazardous waste, liquid, n.o.s. (chromium)	—	D006	9	NA3082	III	Applicable
NATTC-38	NATTC	NATTC AMS	S-784	P.O. Johnson	Waste paint and solvents	Yes	RQ Waste paint and paint related materials	11	D001, D035	3	UN1263	II	Applicable
NATTC-39	NATTC	NATTC AMS	S-784	P.O. Johnson	¹ Rags with MEK	Yes	⁴ Hazardous waste, solid, n.o.s. (methyl ethyl ketone)	119	F005	9	NA3077	III	Applicable
NATTC-40	NATTC	NATTC AMS	S-784	P.O. Johnson	⁵ Waste paint	Yes	Waste paint	113	D001, D035	3	UN1268	II	Applicable
NATTC-41	NATTC	NATTC NDI	S-784	AMS1 Smith	Rinse water w/ penetrants	No	—	—	—	—	—	—	Applicable
NATTC-42	NATTC	NATTC NDI	S-784	AMS1 Smith	² Rinse water w/ emulsifier	Yes	⁴ Hazardous waste, liquid, n.o.s. (chromic Acid)	21	D007	9	NA3082	III	Applicable
NATTC-43	NATTC	NATTC NDI	S-784	AMS1 Smith	Rags with penetrant	No	—	—	—	—	—	—	—
NATTC-44	NATTC	NATTC NDI	S-784	AMS1 Smith	Empty metal cans	No	—	—	—	—	—	—	—

**Table 2-1
Waste Stream Determination Summary Table**

Waste Profile Number	Department	Work Center	Building Number	Point of Contact	Waste Stream Description	Hazardous Waste Determination	DOT Shipping Name	TDEC Code	EPA Waste Code	Hazard Class or Division	UN or NA Number	Packing Group	Land Disposal Restrictions
NATTC-45	NATTC	NATTC NDI	S-784	AMSI Smith	Rinse water with developer	No	—	—	—	—	—	—	—
NATTC-46	NATTC	NATTC NDI	S-784	AMSI Smith	Silver recovery	No	—	—	—	—	—	—	—
NATTC-47	NATTC	NATTC NDI	S-784	AMSI Smith	Used magnaflux	Yes	Hazardous waste liquid, n.o.s. (1,1,1 trichloroethane)	—	F002	9	NA3082	III	Applicable
NATTC-48	NATTC	NATTC NDI	S-784	AMSI Smith	Rags with emulsifier	No	—	—	—	—	—	—	—
NATTC-49	NATTC	NATTC Safety	S-239	Chief Owens	Waste Paint	Yes	Waste paint related materials	—	F002	3	UN1263	III	Applicable
NATTC-50	NATTC	NATTC Safety	S-239	Chief Owens	Waste Paint	Yes	Waste paint related materials	—	F002	3	UN1263	III	Applicable
NAMTRA-01	NAMTRA-GRU (CODE 40)	NAMTRAGRU Photo Lab	S-54	Lee York	Developer (water soluble)	No	—	—	—	—	—	—	—
NAMTRA-02	NAMTRA-GRU (CODE 40)	NAMTRAGRU Photo Lab	S-54	Lee York	Used silver recovery filters	Yes	Hazardous waste, solid, n.o.s. (silver)	—	D011	9	NA3077	III	Applicable
NAMTRA-03	NAMTRA-GRU (Code 40)	NAMTRAGRU Photo Lab	S-54	Lee York	Fixer and developer	Yes	Hazardous waste, liquid, n.o.s. (silver)	—	D011	9	NA3082	III	Applicable
Beech-01	Beech Aircraft	Beech Aircraft	N-798	John Landsittel	Used speedy dry absorbent	No	—	—	—	—	—	—	—

Table 2-1
Waste Stream Determination Summary Table

Waste Profile Number	Department	Work Center	Building Number	Point of Contact	Waste Stream Description	Hazardous Waste Determination	DOT Shipping Name	TDEC Code	EPA Waste Code	Hazard Class or Division	UN or NA Number	Packing Group	Land Disposal Restrictions
Beech-02	Beech Aircraft	Beech Aircraft	N-798	John Landsittel	Empty aerosol paint cans	No	—	—	—	—	—	—	—
Beech-03	Beech Aircraft	Beech Aircraft	N-798	John Landsittel	Used NiCad batteries	No	—	—	—	—	—	—	—
Beech-04	Beech Aircraft	Beech Aircraft	N-798	John Landsittel	Used paper fuel filters	No	—	—	—	—	—	—	—
Beech-05	Beech Aircraft	Beech Aircraft	N-798	John Landsittel	Used fuel (JP-5)	No, Off Spec.	—	—	—	—	—	—	Applicable
Beech-06	Beech Aircraft	Beech Aircraft	N-798	John Landsittel	Paint related waste	To be determined	—	—	—	—	—	—	Applicable
Beech-07	Beech Aircraft	Beech Aircraft	N-798	John Landsittel	Rags with turbo oil and fuel	No	—	—	—	—	—	—	—
Beech-08	Beech Aircraft	Beech Aircraft	N-798	John Landsittel	Waste turbo oil	No	—	—	—	—	—	—	Applicable
Beech-09	Beech Aircraft	Beech Aircraft	N-798	John Landsittel	Waste Safety-Kleen solvent	No, recycled	Naphtha Solvent	35	—	3	UN1256	III	Applicable
Beech-10	Beech Aircraft	Beech Aircraft	N-798	John Landsittel	Used oil filters	Yes	Hazardous Waste Solid, n.o.s. (Cadmium)	—	D006	9	NA3077	III	Applicable
NEX-01	NEX	NEX Service Station	S-341 and 757	Ron Dahl	Used oil	No, Off Spec.	—	—	—	—	—	—	Applicable

Table 2-1
Waste Stream Determination Summary Table

Waste Profile Number	Department	Work Center	Building Number	Point of Contact	Waste Stream Description	Hazardous Waste Determination	DOT Shipping Name	TDRC Code	EPA Waste Code	Hazard Class or Division	UN or NA Number	Packing Group	Lead Disposal Restrictions
NEX-02	NEX	NEX Service Station	S-341 and 757	Ron Dahl	Rags with oil, grease, and Safety-Kleen solvent	No							
NEX-03	NEX	NEX Service Station	S-341 and 757	Ron Dahl	Used oil filters	No							
NEX-04	NEX	NEX Service Station	S-341 and 757	Ron Dahl	Used speedy dry absorbent	No							
NEX-05	NEX	NEX Service Station	S-341 and 757	Ron Dahl	Used antifreeze	No							
NEX-06	NEX	NEX Service Station	S-341 and 757	Ron Dahl	Used freon	No, recycled	Dichlorodifluoromethane						Applicable
NEX-07	NEX	NEX Service Station	S-341 and 757	Ron Dahl	Used lead acid batteries	No, recycled	Batteries, wet filled with acid			8	UN2794	III	
NEX-08	NEX	NEX Service Station	S-341 and 757	Ron Dahl	Used tires	No							
NEX-09	NEX	NEX Service Station	S-341 and 757	Ron Dahl	Empty aerosol cans	No							
NEX-10	NEX	NEX Service Station	S-341 and 757	Ron Dahl	Empty metal/plastic containers	No							
NEX-11	NEX	NEX Service Station	S-341 and 757	Ron Dahl	Waste antifreeze with oil	No							Applicable

**Table 2-1
Waste Stream Determination Summary Table**

Waste Profile Number	Department	Work Center	Building Number	Point of Contact	Waste Stream Description	Hazardous Waste Determination	DOT Shipping Name	TDEC Code	EPA Waste Code	Hazard Class or Division	UN or NA Number	Packing Group	Land Disposal Restrictions
NEX-12	NEX	NEX Service Station	S-341 and 757	Ron Dahl	Waste Safety-Kleen solvent	No	Naphtha Solvent	35	—	3	UN1256	III	Applicable

Notes:

- 1 Safety-Kleen solvent handled, transported, and recycled by Safety-Kleen, Inc.
- 2 DOT shipping information only applicable to quantities exceeding the Reportable Quantity (RQ) of 1,000 pounds.
- 3 Not regulated by DOT in packages less than 119 gallons.
- 4 DOT shipping information only applicable to quantities exceeding the RQ of 5,000 pounds.
- 5 Recommend opening new wastestream by TDEC notification.
- 6 DOT shipping information only applicable to quantities exceeding the RQ of 10 pounds.
- 7 DOT shipping information only applicable to quantities exceeding the RQ of 100 pounds.

3.0 SAMPLING AND ANALYSIS

Analysis was performed according to USEPA Solid Waste Method 846 and others as appropriate. Discrete or composite samples were collected from waste collection points near their points of generation. Wastes from different work centers were not composited.

3.1 Sampling Methods

General sampling procedures followed Chapter 10 of SW-846. Liquids and rags were the most common forms of hazardous waste. Dedicated glass Coliwasa samplers were used to collect liquid waste throughout its depths, ensuring a representative sample. Uncomposited grab samples were collected for volatile organics. A sample thief was used to collect waste oil from underground storage tanks while a Teflon dipper was used to collect samples from the water treatment plant. Solid and powdered wastes (i.e., ash) were collected using plastic scoops.

3.1.1 Sample Preparation, Containers, Preservation, and Labeling

Each wastestream was designated by a unique numeric code indicating the shop from which the sample was collected, the project name and location (unit name and building number), the date and time of collection, and the required analysis.

Sufficient sample was collected from each drum to completely fill the containers, which were provided by the laboratory, along with the appropriate container labels. No preservatives were used.

3.1.2 Transfer of Custody and Shipment

E/A&H provided the chain-of-custody forms which were either computer-generated or completed by hand. Samples were maintained in the custody of the sampling personnel. Upon transfer of custody, the chain-of-custody form was signed, noting the date and time. Because common carriers will not sign chain-of-custody forms, these records were sealed inside each cooler or

box. Chain-of-custody forms received by the laboratory were signed and dated by the laboratory sample custodian and returned to E/A&H as part of the data reporting package.

3.1.3 Sampler Decontamination

Dedicated sampling devices were used so decontamination between drums was not required.

3.1.4 Sampler Safety Precautions

Sampling was performed in accordance with the safety procedures outlined in the Final Health and Safety Plan approved by the Navy.

3.2 Test Methods

Physical state and color were checked visually at the time of sampling. All analyses were conducted by NET laboratory of Bartlett, Illinois. The laboratory performed the hazardous waste analyses in conformance with quality assurance/quality control (QA/QC) procedures set by SW-846. Results are summarized in Appendix A of this report.

4.0 QUALITY CONTROL

All laboratory QA/QC procedures were conducted in accordance with SW-846. Sample containers were prepared by the laboratory as described in Chapter 2 of SW-846. Containers were shipped to E/A&H from the laboratory by common carrier. Samples were maintained in the custody of E/A&H sampling personnel until transfer of custody, when the chain-of-custody form was signed and dated by E/A&H personnel who noted the date and time.

Because the purpose of the Phase II sampling was to characterize wastestreams, QA samples were not included. No preservatives were used.